

## REMARKS

Claims 1-10, 13-26 and 29-36 are pending in the application. Claims 1, 2, 7, 8, 10, 13, 16, 17, 20, 24 and 29 have been amended. Claims 11, 12, 27 and 28 have been canceled without prejudice or disclaimer. Claims 35 and 36 are newly added. Reconsideration of this application is respectfully requested.

It is noted with appreciation that the Office Action has allowed claims 33 and 34 and has indicated that claims 8, 9, 12-14, 24, 25 and 28-30 would be allowable if rewritten to include all the limitations of the base claim and of any intervening claims.

Claims 8 and 24 have been amended to incorporate the limitations of claims 1 and 17, respectively, there being no intervening claims. Therefore, amended claims 8 and 24 and their respective dependent claims 9 and 25 are in condition for allowance.

Independent claims 1 and 17 have been amended to incorporate the limitations of claims 12 and 28, respectively, and respective intervening claims 11 and 27. Independent claim 1 has been further amended to avoid confusion by reciting the microprocessor of the recited system as “first microprocessor” and the microprocessor of the detector as “second microprocessor”. Claims 7, 10 and 16 have been amended by changing “microprocessor” to “first microprocessor”. Therefore, amended claims 1 and 17 and their respective dependent claims 2-7, 13-16, 18-26 and 29-32 are in condition for allowance.

The Office Action rejects claims 1, 4, 5, 10, 11, 15-17, 20, 21, 26, 27, 31 and 32 under 35 U.S.C. 102(b) as anticipated by U.S. Patent No. 5,586,446 to Torimitsu, hereafter Torimitsu. This rejection is moot as to claims 11 and 27, which have been canceled.

This rejection is obviated by the amendment since claims 1, 4, 5, 10, 15-17, 20, 21, 26, 31 and 32 are in condition for allowance as discussed above. Therefore, it is

submitted that the rejection of claims 1, 4, 5, 10, 11, 15-17, 20, 21, 26, 27, 31 and 32 under 35 U.S.C. 102(b) as anticipated by Torimitsu is obviated by the amendment and should be withdrawn.

The Office Action rejects claims 2, 3, 7, 18, 19 and 23 under 35 U.S.C 103(a) as unpatentable over Torimitsu in view of U.S Patent No. 6,453,687 to Sharood et al., hereafter Sharood.

This rejection is obviated by the amendment since claims 2, 3, 7, 18, 19 and 23 are in condition for allowance as discussed above. Therefore, it is submitted that the rejection of claims 2, 3, 7, 18, 19 under 35 U.S.C. 103(a) is obviate by the amendment and should be withdrawn.

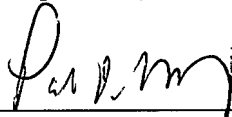
Applicant respectfully traverses the rejection of claims 6 and 22 as being unpatentable over Torimitsu in view of WO 02/065031 (Baker). In this regard, claims 6 and 22, are indirectly dependent upon independent claims 1 and 17, respectfully, which are allowable for the reasons stated above. In addition, the combination of Baker with Torimitsu does not overcome the substantial deficiencies stated upon with regarding to Torimitsu regarding claims 1 and 17. Accordingly, Applicant respectfully submit that dependent claims 6 and 22 are allowable for at least the same reasons as claims 1 and 17.

Newly presented claims 35 and 36 depend from amended claims 8 and 24, which are in condition for allowance as discussed above. Accordingly, it is submitted that claims 35 and 36 are also in condition for allowance.

Noting that claims 33 and 34 stand allowed and that claims 1-10, 13-26, 29-32, 35 and 36 are in condition for allowance for the reasons set forth above, it is respectfully requested that the rejections under 35 U.S.C. 102(b) and 35 U.S.C. 103(a) be withdrawn, that claims 1-10, 13-26 and 29-32, 35 and 36 also be allowed and that this application be passed to issue.

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Respectfully Submitted,



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